

A FEW ORCHIDS FROM THE MALAYAN ARCHIPELAGO.

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Oberonia (sect. *Hymenobractea*, incl. *Platystreptus*) **Latifi**
J. J. S. np.

Caules approximati, elongati, compressi, serpentine, cum alis vaginarum recti, 12-21 cm. longi, cum vaginis c. 1.2 cm. lati, 10-21-folii. Folia inarticulata, erecto-patentia, plerumque plus minusve falcata, basin versus decrescentia, summa etiam minora, breviter acuta vel brevissime acute acuminata, parte patente elongato-triangulari, basi haud vel vix fissis, 2.1-3.3 cm. longa, 0.6-0.8 cm. lata, cum vagina 4.2-4.6 cm. longa, vaginis sensim in folia vergentia, 0.75-0.8 cm. latis antice fissis, basi tantum tubulosis. Inflorescentia elongata laxa multiflora, c. 20-22 cm. longa, angulata, papillosa. Bractee oblongae, versus apicem angustatae, irregulariter eroso-fimbriato denticulatae, concavae, c. 0.225 cm. longae, fere 0.1 cm. latae. Flores in pseudoverticillis 5-6-meris, in inflorescentiae apice basique irregulariter dispositi, patentissimi vel subpatentissimi, parvi, c. 0.2 cm. diam., sepalis petalisque patentissimis, apice leviter recurvulis. Sepalum dorsale ovatum, obtusum, convexum, basi concavum, bene 0.1 cm. longum, 0.06 cm. latum. Sepala lateralia ovata, acutiuscula, convexa, bene 0.1 cm. longa, 0.07 cm. lata. Petala divaricata, leviter recurvula, oblonga, obtusa, basi paululum angustata, convexa, margine papillosa, fere 0.1 cm. longa, 0.04 cm. lata. Labellum basi auriculis oblique rotundatis gynostemium semiamplexans, concavitate antice rotundata ad basin, 3-nerviis, antice in lobum medium cum auriculis angulos rotundato-obtusos facientem ambitu quadrangulum apice leviter angustatum angulato-retusumque margine papillosum contractum, expansum 0.1 cm. longum, ad auriculas fere 0.1 cm. latum, lobo intermedio 0.06-0.07 cm. longo, 0.05 cm. lato. Gynostemium breve, rectum, a dorso compressum, dorso convexum, cum anthera 0.04 cm. longum. Anthera cucullata, transverse ovalis. Pollinia 4, in corpuscula 2 ovalia plus minusve obovata unita. Stigma transversum, semilunatum. Ovarium densius patentissime papillosum, 0.06 cm. longum; pedicellus minus dense papillosum, 0.16 cm. longum.

Sumatra:—West Coast, environs of Kajoe Tanam, 150 m. (S. M. Latif n. 13, November, 1934).

This belongs to the group of species on which Schlechter based his sections *Hymenobractea* and *Platystreptus*. In habit it approaches *Hymenobractea*, in the shape of the flowers *Platystreptus*, but it is questionable whether these groups, even when united, may be retained as a section.

O. Latifi is a near ally of *O. monstrosa* Lndl. but the leaves are much more numerous and denser and the lip much less contracted.

Description from herbarium specimen, for which I am indebted to Mr. Latif.

Dendrobium (sect. *Calcarifera*) **Paathii** J. J. S. in "De Orchidee" IV (1935) 183.

Caules elongati, deinde ramosi. Inflorescentiæ e nodis caulium defoliatorum, ut videtur semper unifloræ, pedunculo tenui c. 1.3 cm. longo. Bractea adpressa, triangula, c. 0.26 cm. longa. Flores conspicui c. 4.4 cm. longi, 2.75 cm. lati. Sepalum dorsale erectum, recurvulum, convexum, oblongo-ovatum, apice angustatum, obtusum, 1-nervium cum nervis minoribus intermixtis, c. 1.85 cm. longum, 1 cm. latum. Sepala lateralialia lacinia conspicua oblique lineari-oblonga concava ad pedem gynostemii decurrentia, marginibus anticis versus pedis apicem contigua longitudine c. 0.45 cm. connata, mentum magnum calcariforme cum ovario angulum acutum vel subrectum faciente fere rectum ultra medium leviter recurvulum apice abrupte incurvum truncato-obtusum antice canaliculatum apice antice bilobulum 2.4 cm. longum apice 0.525 cm. latum formantia, parte libera recurva, oblique ovato-triangula, obtusa, marginibus leviter curvatis, c. 8-nervia, c. 1.95 cm. longa, margine antico 3.65 cm., basi 2.5 cm. metientia. Petala apice recurva, laxè undulata, oblique rhombea, obtusa 3-nervia, nervis exterioribus bene ramosis, bene 2 cm. longa, 1.15 cm., basi 0.33 cm. lata. Labellum basi longitudine c. 0.6 cm. pedi gynostemii adnatum, deinde arcuato-recurvum et incurvum, subparallelum pedi gynostemii erectum unguiculatum, cuneato-spathulatum, 3-lobum, lobis lateralibus erectis concavum, leviter undulatum, gynostemium superans, sub tota longitudine sulcatum, ungue ad basin partis liberæ incrasatione transversa carnosae margines unguis connectente postice in crura 2 basin versus producto antice fimbriato instructo, costa brevi longitudinali (glandula) inter crura, intus ante incrasationem ad basin laminæ verruculosum, 3-costatum, costis approximatis angustis convexis simplicibus, costa media basin lobi intermedii usque producta, lateralibus humilioribus brevioribusque inexplanatum 3.85 cm. longum, explanatum fere 4 cm. longum, ad lobos laterales 2 cm. latum, ungue toto c. 1.2 cm. parte connata 0.8 cm. longo; lobi laterales expansi sinibus subrectangulis plicaque introrsa a lobo intermedio separati, oblique trianguli, obtusi, margine antico leviter rotundati, costula inconspicua intus marginem lateralem mesochylium cuneatum antice truncatum infra apicem satis distincte contractum 2.1 cm. longum apice 2 cm. infra apicem 1.6 cm. latum formantes lobus intermedius erectus, leviter sigmoideus angulato-convexus, anguste triangulo-oblongus, obtusus, basi margine minute transverse rugulosus, carnosulus c. 1.1 cm. longus, basi 0.6 cm., medio 0.73 cm. latus. Gynostemium breve, oblique conicum, dorso convexum, absque anthera 0.5 cm. longum, clinandrio excavato, transverse quadrangulo, filamento satis longo, vix curvulo lineari, auriculis porrectis, verticalibus, filamento æquilongis, ovato-triangulis, breviter acuminatis, acutis vel obtusis. Anthera

cucullata, oblique cubica, dorso transverse gibbosa, postice canaliculata, apice producta truncata papilloso-hirtella, c. 0.4 cm. longa, 0.3 cm. lata. Pollinia 4, lateraliter compressa anguste obovato-pyriformia, 0.3 cm. longa. Rostellum appendice semor biculari margine incrassato (viscido?) basin stigmatidis obtegente instructum. Stigma conspicuum, basin gynostemii fere attingens oblongo-quinquangulare circiter dimidio inferiore contractum. Pes gynostemii cum ovario angulum acutum vel subrectum faciens elongatus leviter sigmoideus, apice bene incurvus et ungui labelli adnatus, linearis canaliculatus apice incurvo magis excavatus et glandula costiformi longitudinali donatus 2.45 cm. longus. Ovarium teres 6-sulcatum, 0.9 cm. longum, cum pedicello tereti leviter sigmoideum.

Borneo:—Westerafdeeling, Goenoeng Raja near Singkawang. (J. J. Paath, April, 1935; "sepals and petals white, lip yellow, streaked orange in the throat, midlobe white").

A very distinct member of the section *Calcarifera* of which I do not know a very near ally.

Description from 2 flowers preserved in alcohol.

Dendrobium (sect. *Distichophyllum*) **singkawangense** J. J. S. n. sp.

Caules approximati, c. 20 cm. longi, flexuosi internodus c. 1.7 cm. longis. Folia patentissima, apice recurvula, oblonga, apice oblique rotundato-bilobula, ut videtur initio nigro-pilosa, costa media supra sulcata subtus prominente, c. 4.3 cm. longa, 2.3-3.3 cm. lata; vaginis internodia æquantibus.

Inflorescentiæ vaginam dorso ad basin perforantes, brevissimæ, 3-4-floræ, rachide nonnullis pilis adpressis partim ramosis nigris inspersa c. 1-2 cm. longa. Bracteæ oblongæ acutiusculæ, concavæ, dorso et etiam intus ad apicem marginemque pilis 1-3-ramulosis grossiusculis nigris vestitæ, c. 8-nerviæ nervis 3 medianis usque ad apicem productis membranaceæ 1.175 cm. longæ, 0.475 cm. latæ. Flores carnosuli, c. 2.9 cm. lati, 2.8 cm. longi. Sepalum dorsale cum ovario angulum obtusum faciens, levissime sigmoideum porrectum, secundum costam medianam canaliculatum subovatum, apice triangulo-contracto-acuminatum, satis acutum, margine superne subirregulare basi latum 7-nervium, c. 1.6 cm. longum, fere 0.8 cm. latum. Sepala lateralia cum pede gynostemii mentum conicum rectum cum ovario angulum acutum faciens dorso longitudinaliter bicanaliculatum basi utrinque gibbiforme parte superiore calcariformi-contractum cum marginibus anticis fere omnino liberis contiguisque obtusum 1 cm. longum formantia divergentia angulum acutum facientia, secundum costam leviter canaliculata obtusangule triangula, acuta breviter apiculata, apice subirregulariter marginata, dorso obtuse carinata, 7-nervia c. 1.75 cm. longa, margine antico 2.5 cm. basi 1.35 cm. metientia. Petala divergentia, apice recurvula oblique ovata, 2/5 partibus superioribus triangulo-contracto-acuminata acuta, basi utrinque rotundata medio tantum

affixa, 3-nervia, nervis exterioribus ramosis, textura sepalis tenuiora, 1.75 cm. longa, 1.05 cm. lata. Labellum ungue parti superiori pedis gynostemii calcariformi-connatum, 3-lobum, concavum, lobis lateralibus gynostemium æquans, subtus inter lobos laterales leviter longitudinaliter canaliculata, intus inter lobos laterales incrassatione longitudinali leviter 3-costulata in lobo intermedio in costas 3 valde verruculosas apicem labellifere attingentes exeunte, 5-nervium, nervis lateralibus valde ramosis nervis ramisque omnibus in lobo intermedio valde verruculosus ceterum serie unica verrucularum instructis, inter nervos in lobo intermedio humilior verruculosus, in basi laminæ fascia longitudinali glabra excepta papillosum, expansum totum ambitu, rhombeum, fere 2.5 cm. longum, 1.5 cm. latum, ungue oblongo, longitudine 0.6 cm. pedi gynostemii adnatum; lobi laterales erecti, rotundato-trapezoidei, antice vix producti margine antico leviter irregulares, mesochylium æquilateraliter trapeziiforme c. 1.1 cm. longum formantes; lobus intermedius cum lateralibus angulos acutos faciens, porrectus, recurvus, undulatus, irregulariter marginatus, expansus quinquangularis, apice angustatus, obtusiusculus, 0.9 cm. longus, 0.75 cm., basi 0.575 cm. latus. Gynostemium rectum subconicum dorso convexum, subtus planum, cum anthera 0.525 cm. longum, filamento longo, filiformi-subulato, auriculis paululum superante, auriculis triangulis, acutiusculis margine postico leviter serrulatis concavis. Anthera cucullata antice visa quinquangularis, dorso obtusa retusaque, apice in appendicem transversam subtruncatam vix retusam dense hirtellam producta, omnino minute cellulosa, 0.25 cm. lata. Pollinia 4 in corpuscula 2 unita lateraliter compressa, oblique oblonga vix curvula, 0.175 cm. longa. Stigma basin gynostemii attingens, oblongo-ovale, vix urceolatum, basi rotundatum apice truncatum. Pes gynostemii cum ovario angulum acutum faciens, rectus, canaliculatus, fere dimidio superiore labelli ungui adnatus et angustior, parte lata dorso conspicue bicanaliculatus, 1 cm. longus. Ovarium oblique obconicum, 6-sulcatum, cum pedicello angulum obtusum faciens, 0.65 cm. longum; pedicellus teres c. 2.5 cm. longus.

Borneo:—Wester Afdeeling, Singawang, alang-field with scattered trees, epiphytical (F. J. Paath, 20 October, 1934; "flowers creamy white, midlobe of the lip inside bright orange").

A distinct species of the group *Nigrohirsuto* of the section *Distichophyllum*. The lip is very warty inside, as in *D. ovipostoriferum* J. J. S., *D. Hallieri* J. J. S. etc., but it is very different from any of the species known to me in the rather short mentum, in the side lobes, which are very large as compared with the midlobe, and in other characters. In the shape of the ovate acute petals it somewhat resembles *D. Hallieri*.

By the good offices of the editor of "De Orchidee" I received flowers preserved in spirit and photographs from which the description has been made.